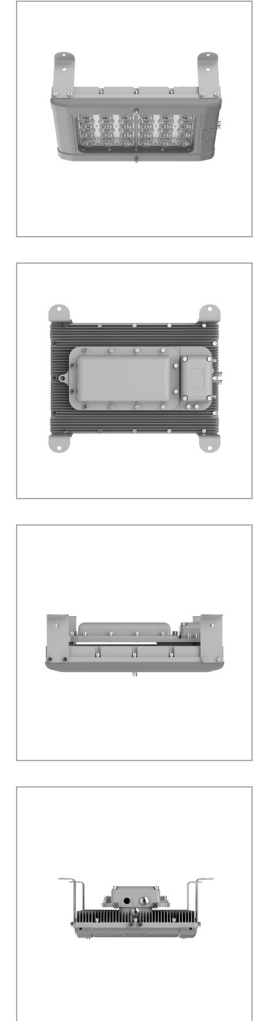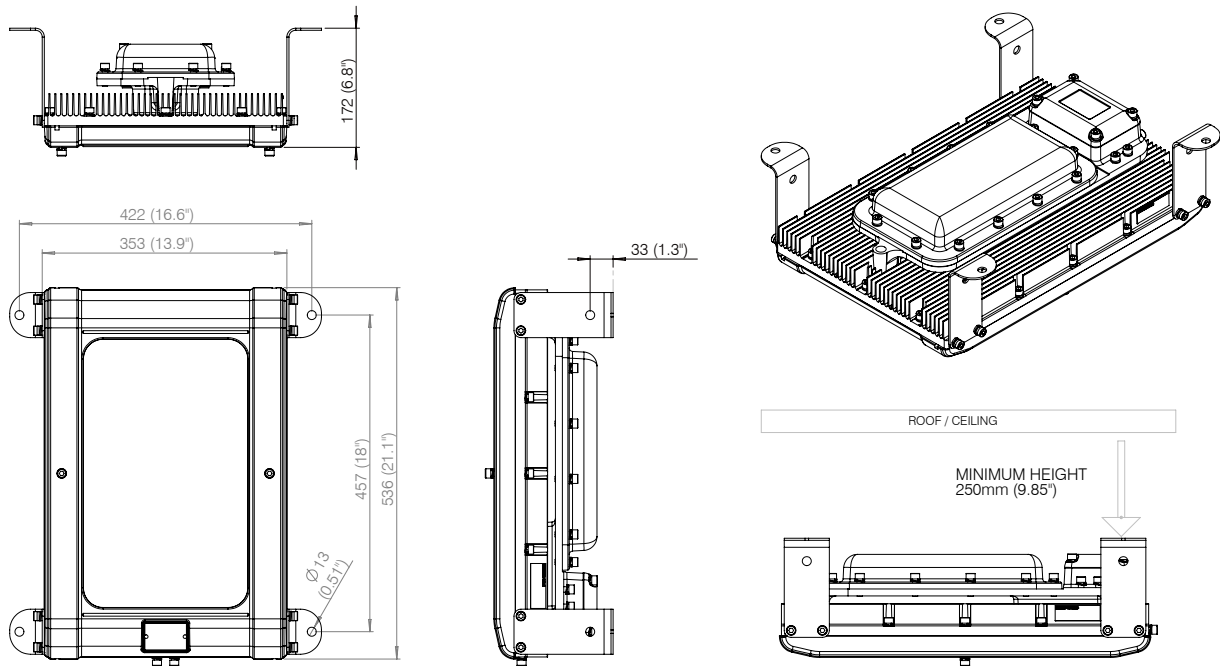# SPARTAN SPZ-HPBY
LED Zone 2 Bay Light

rayTEC

- ATEX and IEC Ex approved - Zone 2 UL/CSA approved including C1D2 & ABS
- Zone 1 variant also available
- Ultra long life LED
- High lumen output LED
- Easy installation, maintenance and inspection
- Extreme durability and toughness

- Wide operating temperature range -50° to +50°C
- DALI/Dimming as standard
- 5 year warranty
- Remote power supply variants available (contact Raytec)
- Now 'op is' approved (EN60079-28)

SPARTAN Bay Light luminaires are designed for hazardous environments which require high performance, high reliability, White-Light illumination. Specifically, the SPARTAN Bay Light is designed for use in very high applications such as aircraft hangers or hazardous area warehouses. Installations that require high quantities of light from a powerful ceiling mounted solution. Using Raytec's field-proven, long-life LED technology SPARTAN luminaires are ATEX and IEC Ex approved for all Zone 2 applications. SPARTAN Bay Light luminaires have been designed with maintenance in mind. A unique modular design allows key components to be easily accessed and serviced if required, making inspection and maintenance quicker and easier. It also allows for the most flexible installation.

SPARTAN Bay Light luminaires are available in a range of different beam patterns, delivering the ultimate flexibility to specifiers, distributors and end users. SPARTAN uses **COOLEXTRUDE™** thermal management technology, ensuring a much cooler LED operating temperature and up to 60% better heat dissipation compared to traditional lighting solutions, allowing the product to operate for > 10 years while still delivering a high lumen output of up to 25,000 lumens.

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Raytec Americas: +1 613 270 9990 • ushazsales@raytecled.com

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Product Dimensions

172 (6.8")

422 (16.6")

353 (13.9")

33 (1.3")

457 (18")

536 (21.1")

Ø13 (0.5")

ROOF / CEILING

MINIMUM HEIGHT
250mm (9.85")

Features	Benefits
Ultra-Powerful	High lumen output - up to 25,000 lumens Latest high power LED technology
Ultra-Flexible	Range of beam patterns available Operating temperature range of -50°C to +50°C with a T4 rating for even the most challenging conditions
Ultra-Reliable	Industry leading 5 year warranty Designed and manufactured in the UK to the highest standards including both ISO9001 & ISO14001 Advanced electronics and LED's Extreme durability and toughness
Ultra-Modular	Both the LED and PSU modules are easily accessible for maintenance and inspection
Ultra-Efficient	**COOLEXTRUDE™** thermal management delivers class leading energy efficiency Significant running and maintenance savings compared to traditional lighting technologies SMART access wiring system for safe and efficient installation, set-up and ongoing inspection
Ultra-Support	Photometric files available (.ies & .ldt) Full Lighting Design Service Site specific Energy and Cost Saving Report available

5 YEAR WARRANTY
All Raytec luminaires are provided with an industry leading 5 year warranty
and have an expected useful life in excess of 10 years

5 YEAR WARRANTY

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Technical Specifications

Certification

ATEX Rating:	ATEX and IEC Ex rated for Gas and Dust
Hazardous Area rating:	Zone 2 – Gas and Dust
Certificates:	CML 17ATEX4149 AND IEC Ex CML 17.0074 UL/CSA including C1D2
Gas:	II 3 G D Ex ec nR op is IIC T4 Gc Ta= -50°C to +50°C
Dust:	Ex tc op is IIIC T104°C Dc IP66 Ta= -50°C to +50°C
North American Rating:	Class I, Div. 2 Gr ABCD T4 Class II, Div. 1 Div. 2 Gr EFG Tamb= -40°C to +50°C Enclosure Type 4X
ABS Rating:	ABS Certificate #15-LD1364539-1-PD

Electrical

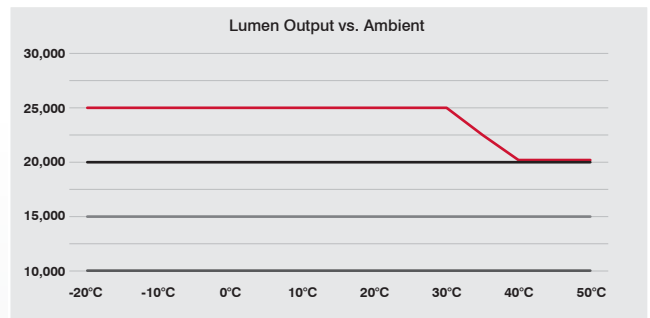|	
Input:	150-264V 50/60Hz AC/DC 110V variant available - please contact Raytec C1D2 variants 120-277V AC/DC
Power:	120W – 10,000lm 180W – 15,000lm 240W – 20,000lm 300W – 25,000lm
Termination	Incoming terminal block suitable for looping 4 core 4mm² cable
Power Factor:	>0.95
Cable Entries	2xM20 as standard (other entries available upon request), dispatched complete with three ATEX/IEC Ex approved blanking plug 3/4" NPT as standard on C1D2

Mechanical/Environmental

Burning position:	Universal
IP rating:	IP66 & IP67
Temperature range:	-50°C to +50°C (ATEX) -40°C to +50°C (C1D2)
Weight:	22.7kg (50lbs)
Enclosure:	Marine grade aluminium epoxy powder coated, toughened glass, all external fasteners and brackets are marine grade stainless steel
Unit Colour:	Front - Dark Grey (RAL 7012) Back - Silver (RAL 9006)
Installation instructions:	Please contact Raytec for copy
Dimensions:	536 x 422 x 172mm (21.1. x 16.6 x 6.8")
Mounting:	See dimension drawings on Page 2

Optical

Beam Patterns-circular:	30°x 30° or 60°x 60° or 90°x 90°
Lumen Output	Up to 25,000 lm
LED type:	Platinum Elite SMT LEDs
Number of LEDs:	12 or 24
CRI	80+
Dominant Wavelength:	5,000K
Automatic Thermal Cutback Feature	Refer to the graph below

Automatic Thermal Cutback Feature

Lumen Output vs. Ambient

- 25K Lumens
- 20K Lumens
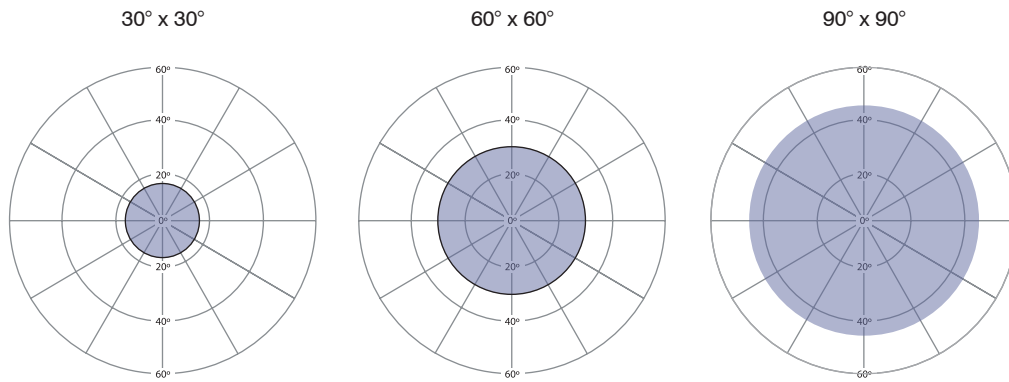- 15K Lumens
- 10K Lumens

Product Codes - Zone 2

Part Codes (Select beam pattern below to replace 'XXXX')	Description (T4 variants as standard)
SPZ-HPBY25K-W-XXXX	SPARTAN High Power Bay Light, Zone 2, White-Light, 25,000lm
SPZ-HPBY20K-W-XXXX	SPARTAN High Power Bay Light, Zone 2, White-Light, 20,000lm
SPZ-HPBY15K-W-XXXX	SPARTAN High Power Bay Light, Zone 2, White-Light, 15,000lm
SPZ-HPBY10K-W-XXXX	SPARTAN High Power Bay Light, Zone 2, White-Light, 10,000lm

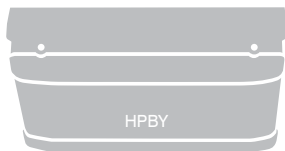| Beam pattern	Add -C1D2 to part code for North American standards
3030	Circular beam pattern, 30° x 30° beam
6060	Circular beam pattern, 60° x 60° beam
9090	Circular beam pattern, 90° x 90° beam

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Beam patterns - Circular

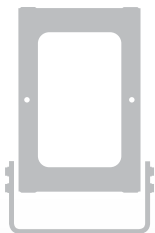30° x 30°   60° x 60°   90° x 90°

Products in the SPARTAN Bay range

Zone 1, Zone 2, UL/CSA, Industrial
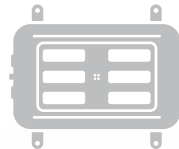
HPBY

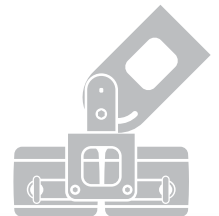# Products in the SPARTAN Family

SPARTAN Flood   SPARTAN Linear   SPARTAN Bulkhead   SPARTAN Bay   SPARTAN Crane

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